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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,061		06/20/2003	Lixiang Wei	032026-0726 5528		
23524	7590	03/04/2005		EXAMINER		
FOLEY &			BERHANE, ADOLF D			
150 EAST ( P.O. BOX 1		STREET		ART UNIT PAPER NUMBER		
MADISON	, WI 537	01-1497		2838		
				DATE MAILED: 03/04/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		application No.	Applicant(s)					
Office Action Summer		10/601,061	WEI ET AL.	(On)				
Office Action Summa	ry E	xaminer	Art Unit					
		dolf Berhane	2838					
The MAILING DATE of this cor Period for Reply	nmunication appea	rs on the cover sheet with th	ne correspondence ad	Idress				
A SHORTENED STATUTORY PERI THE MAILING DATE OF THIS COM  - Extensions of time may be available under the pre after SIX (6) MONTHS from the mailing date of the  - If the period for reply specified above is less than  - If NO period for reply is specified above, the maxi  - Failure to reply within the set or extended period of Any reply received by the Office later than three re earned patent term adjustment. See 37 CFR 1.76	MUNICATION.  ovisions of 37 CFR 1.136(a  is communication.  thirty (30) days, a reply wil  mum statutory period will a  or reply will, by statute, can  nonths after the mailing da	hin the statutory minimum of thirty (30)  pply and will expire SIX (6) MONTHS to the application to become ABANDO	e timely filed  days will be considered time from the mailing date of this content (35 U.S.C. § 133).					
Status								
1) Responsive to communication	(s) filed on							
2a) ☐ This action is FINAL.	2b)⊠ This ac	ction is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			•	·				
4) Claim(s) 1-11 is/are pending in 4a) Of the above claim(s)  5) Claim(s) is/are allowed.  6) Claim(s) 1-11 is/are rejected.  7) Claim(s) is/are objected.  8) Claim(s) are subject to	_ is/are withdrawn							
Application Papers								
9)☐ The specification is objected to	by the Examiner.							
10)☐ The drawing(s) filed on i	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that an	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) ind 11) The oath or declaration is object	=			• •				
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)								
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Re</li> <li>Information Disclosure Statement(s) (PTO-1 Paper No(s)/Mail Date 6/17 and 7/26/04.</li> </ol>		4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		O-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Oh (US 2004/0136210A1).

Oh discloses a zero voltage switching single switched resonant DC link with minimized conduction loss in Figs. 1-3. A dual bridge matrix converter (100), a high DC link line (150) and a low DC link line (150), line-side converter (110) having three input lines connectable to a three-phase AC power system to receive AC power (115-1, 115-2 and 115-30 therefrom and connected to the DC link high and low lines (150) to provide unidirectional power thereto, the line-side converter including three gate controlled switching devices (112-1 to 112-6), each gate controlled switching device connected from each side thereof by anti-parallel oriented diodes (114-1 to 114-6), a load-side converter (130) connected to receive power from the DC link lines and having three output lines (135-1, 135-2 and 135-3) on which three-phase power is provided, the load-side converter comprising gate controlled switching devices (133-1 to 133-6) connected in a bridge configuration with pairs of the switching devices connected

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between the DC link high line and low line and with junctions between the pairs of switching devices connected to the output lines, a controller connectable to receive the AC voltages provided to the line-side converter and providing control signals to switch the switching devices of the line-side converter and the load-side converter with pulse width modulated control for AC output voltages on the output lines of the load-side converter; and a clamp circuit (120) connected between the DC link high line and the DC link low line (150), the clamp circuit including a series connected diode (124), capacitor (C1 and C2) and a switch (123) connected in parallel with the diode.

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adolf & erhane Primary Examiner

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